



GeFei

WWW.GEFEI-TECH.COM

MIO-SDI-Aviewer

User Manual - temporary



www.gefei-tech.com

[Gefei Tech.Co.,Ltd]

Contents

- Product Description* 1
- Features* 1
- Panel Description*..... 2
- Application* 4
- Specifications* 5
- How to connect the device* 6
- Special Notice*..... 6
- How To Use The Remote Control Software* 7
- Contact Us*..... 22

Product Description

MIO-SDI-Aviewer is a miniature high quality video/audio interface converting HD/SD signal to digital RGB (DVI-D/HDMI) for LCD or PDP.

MIO-SDI-Aviewer supports signal monitor and alarm indicator, supports 4:3, 16:9 and full screen output mode. The signal's UMD and VU indicator position can be set freely.

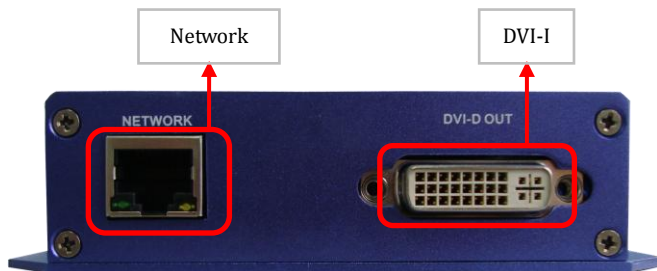
MIO MIO-SDI-Aviewer fully supports WEBSERVER, by which configuration and operation can be done conveniently. MIO-SDI-Aviewer is a cost-effective device for constructing video/audio monitoring or display system.

Features

- HD/SD-SDI video input
- Support various output resolutions which is up to 1920x1080x60p
- Provide video and audio signal auto detecting and alarming, such as video/audio lost, video frozen, video black video, and audio overload in the form of picture
- Support programmable UMD text
- Four channel VU meters indication
- Built-in WEBSERVER
- 4:3, 16:9 and full screen display modes support
- Apple HD Cinema Display compatible

Panel Description

OUTPUT & REMOTE CONTROL



Output resolution:

1024x768x60p, 1280x768x60p

1280x720x60p, 1280x800x60p

1280x1024x60p, 1366x768x60p,

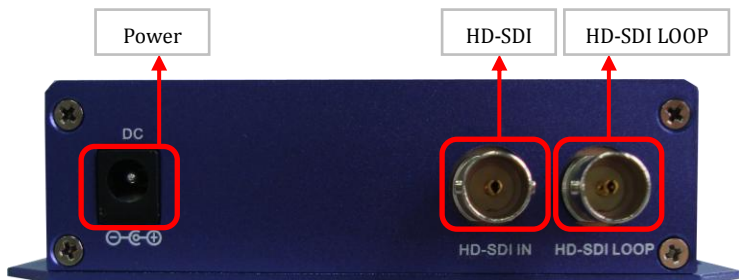
1400x1050x60p, 1680x1050x60p

1920x1080x50p, 1920x1080x60p

1600x900x60p

Network: Default IP address is 192.168.1.76.

INPUT



Power: 12VDC,1.5A

Support following resolutions :

SD: 525i 60, 625i 50

HD: 720p 50Hz/60Hz

1080i 50Hz/59.94Hz/60Hz

1080p 23.976Hz/24Hz/25Hz/29.97Hz/30Hz

USER CONTROLS

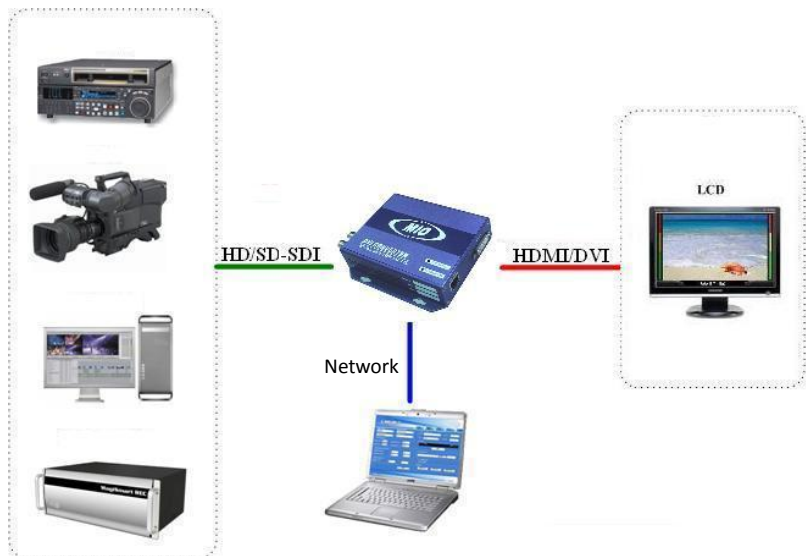


LOAD DEFAULT: Return to Default factory Parameters. The parameters on the web page will be restored to default ones, including IP address (192.168.1.76) ,Mac address and user password

(000000).

RESOLUTION: Output Resolution Select. The selection of resolution is among 1024x768x60p, 1280x720x60p, 1280x768x60p.

Application



Specifications

Video Input

Input interface: 1* BNC connector

Impedance: 75 ohms

Format: SD: 525i, 625i

HD: 720p 50Hz/60Hz

1080i 50Hz/59.94Hz/60Hz

1080p 23.976Hz/24Hz/25Hz/29.97Hz/30Hz

Video Output

Output resolution:

1024x768x60p, 1280x768x60p

1280x720x60p, 1280x800x60p

1280x1024x60p, 1366x768x60p,

1400x1050x60p, 1680x1050x60p

1920x1080x50p, 1920x1080x60p, 1600x900x60p

Connector: DVI-I, Female, compliant to DVI 1.0 pin

Format: DVI output format are compliant to EIA/CEA-861-B

External Control

1 x RJ45, 10/100/1000M adaptive

Dimension

120x98x27mm

Power

12V 1.5A

How to connect the device

Typically, MIO-SDI-Aviewer will work following steps:

- Ensure the MIO MIO-SDI-Aviewer is disconnected from power.
- Connect video equipment to the convertor BNCs and DVI connector.
- Connect audio equipment to RCA connectors (optional)
- Connect PC or hub to RJ45 connectors (optional)
- Apply power adaptor to the converter

Special Notice

- 1 In order to avoid network traffic congestion, please do not submit parameters before the first modification is applied.
- 2 In order to avoid hardware loose contact caused by continuous operations on the front panel, please do your second operation after you have got the first operation result.
- 3 Generally, it will spend about three seconds to get the results after you submit. The time is related with the monitor type. If the time is too long (over 7seconds), maybe there is something abnormal with the hardware's working status(overheating for example), please wait patiently .
- 4 Do not plug the DVI connector without power-down.
- 5 When there is no display output from the device on the monitor, maybe the output resolution don't match the monitor. Please try to change the output resolution though web server.
- 6 Windows 2003, Windows XP and Windows Vista are strongly recommended with Internet Explorer.exe.
- 7 User can also upgrade system and FPGA program under the label "Network". Before the upgrade, the anti-virus software and firewall have to be closed to make sure that the upgrade data is transmitted to MIO-SDI-Aviewer system without rejection. Power and network cannot be cut off during upgrading.

How To Use The Remote Control Software

Attention before use:

MIO-SDI-Aviewer has a built-in WEBSEVER, so user could deploy it by Internet Explore easily if connect it through CAT5 cable.

The default IP address: 192.168.1.76.

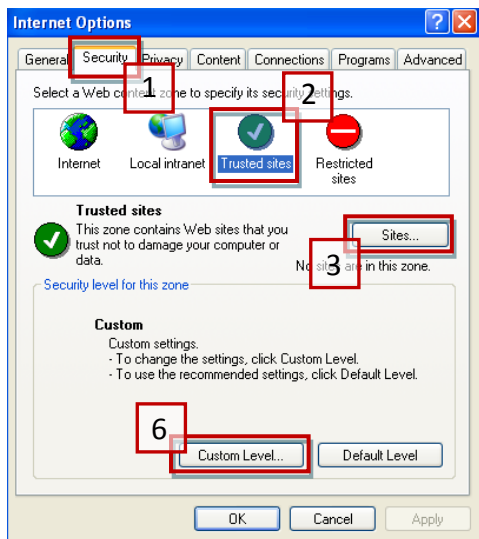
The default user name: admin

The default password: 000000

Before you open the Internet Explore, please ensure your Internet Explore has been configured follow the step:

The methods to install Text ActiveX plug if there are needed.

Double click IE, choose Tools/ Internet Options, and then appear the dialog below.

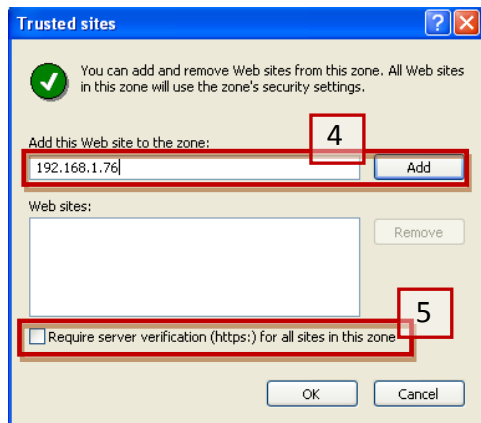


You can configure the Web following a few steps below:

Choose Security label.

Click Trusted sites.

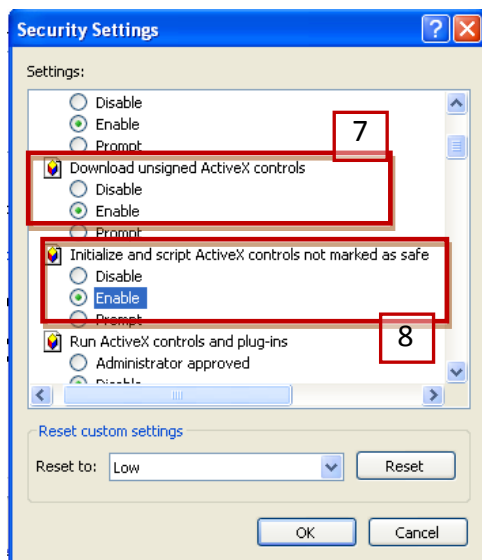
Click the Sites button to appear the dialog below.



Add this Web Site to the zone, and then click Add button.

Please don't put a tick in the appropriate box which requires server verification (https :) for all sites in this zone. Then click OK.

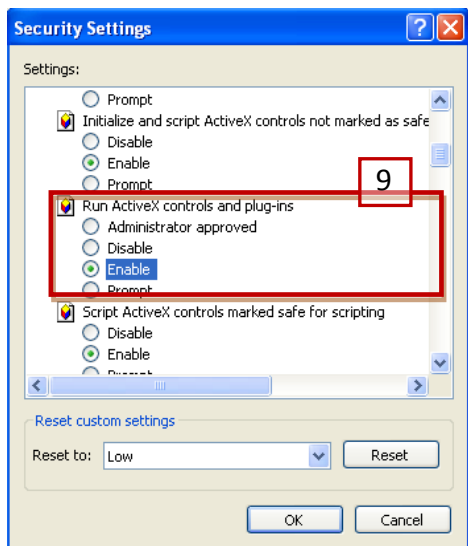
Click the Custom Level button to appear the dialog below.



Enable “Download unsigned ActiveX controls”.

Enable “Initialize and script ActiveX controls not marked as safe”.

Enable “Run ActiveX controls and plug-in”.



After you finish the entire settings, click OK to exit Internet Options.

For Windows 2003 or XP, input “192.168.1.76/dvipro.cab” in the address bar of IE, and press Enter. Here appears a pop-up dialog box, which is required to save the CAB files. Choose the route to save it in the local disk. After extracting the file folder, run the file called “install” inside it.

For Windows Vista, when re-open the IE, if there is a hint of ActiveX installment, please install the ActiveX.

After the entire installment, then open the IE Browser again. If you can see the texts in “effect preview” as soon as you enter them in “content” of UMD. That means that the settings above have taken effect successfully. If not, please do all the settings again.

Login

The default user name: admin. The default password: 000000.

User Login

UserName:admin

Password:●●●●●●

Login

Exit

System Settings

There are several basic parameters on the left part of web page. Adjust these parameters if needed.
Click the Submit button to ensure the adjusted parameters take effect.



中文 / English

System

User

Network

Help

Exit

Input Source:
Test Signal

Output Resolution
1920x1080x60p

De-interlacing Filter Setting:
Three fields filtered and

Aspect Ratio:
16:9

Upload Text for UMD

Content

Size 300

Font Arial

Color

Effect Preview

Upload

Upload Picture for UMD

Browse...

Upload

Tally Display Setting

Tally Display

Configuration Template

NO.1

NO.2

NO.3

Detection Threshold :

Frozen Pixel Percentage in a frame 80%

Duration(ms) 1000

Black Pixel Percentage in a frame 90%

Duration(ms) 1000

Audio Mute Sampling Rate 95%

Duration(ms) 1000

Position of Audio Meters:

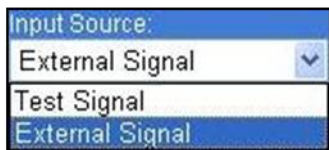
Top Coordinates of left Audio Meter: X: 766 Y: 20

Top Coordinates of Right Audio Meter: X: 854 Y: 20

Submit

Input Source

Select the video type between the External Signal (HD SDI/SDI) and the test signal generated by this machine.

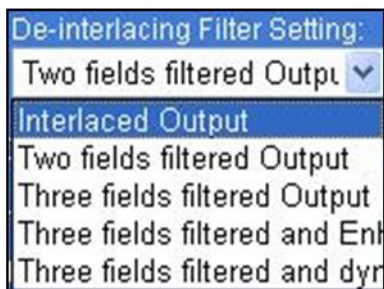


De-interlacing Filter Settings

This function is suitable for high-end customs to make motion video played smoothly without tailing and saw tooth.

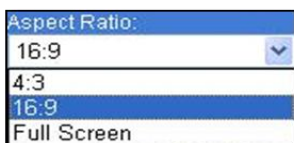
The function includes Interlaced Output, two fields filtered Output, three fields filtered Output, three fields filtered and Enhanced Output, three fields filtered and dynamic Enhanced Output.

Click the Submit button to take effect.



Aspect Ratio

Aspect ratio contains 4:3, 16:9, and full screen.



4:3 MIO-SDI-Aviewer output display:

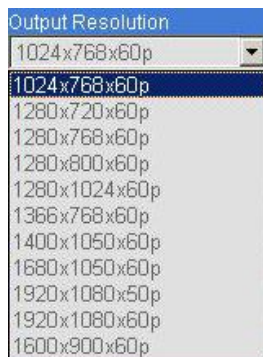


16:9 MIO-SDI-Aviewer output display:



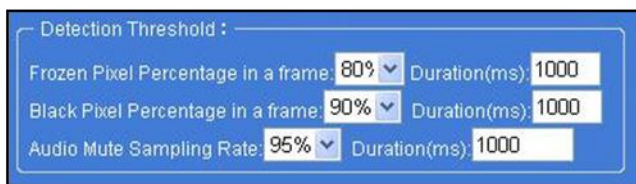
Output Resolution

There are several output resolutions provided by this machine. The max one is up to 1920x1080px60Hz. When there is no display output from the device on the monitor, maybe the output resolution don't match the monitor. Please try to change the output resolution though web server.



Video/Audio alarm Detection Threshold

You can set the detection threshold according the needs to alarm of video frozen, black, and audio in silence.



The meaning of alarm pictures:



Video lose



Video black



Video frozen



Audio overload



Audio in silence

Position of Audio Meters Settings

You can adjust the position of left and right audio meters by entering an X-axis value and a Y-axis value. The origin point starts on the upper left corner of the screen.

Position of Audio Meters:

Top Coordinates of left Audio Meter: X: Y:

Top Coordinates of Right Audio Meter: X: Y:

Design UMD

This area includes 2 parts: one is character editing area, and the other one is preview area. You can create characters, edit the size and color, and preview the UMD effect real time.

Upload Text for UMD

Content Size

Font Color

Effect Preview



To create the UMD:

Type the texts in "content", and change size, font and color of texts. You will see the effects in effect preview. After all parameters are settled, upload texts and all the texts will be applied in UMD.



To clear the UMD:

Clear up all characters or enter a "space", there are no character in UMD preview area, click "Upload", the texts in UMD area will be cleared.

Change UMD picture

Please upload the UMD picture in form of 32bits TGA format with alpha channel. The size of picture is 720x60 pixels. You can change the UMD background picture freely.



Tally Display Setting (Reserved)

Click the "Tally display", only when there is a tally signal input, the output image will be displayed at both ends of Tally red region. If you do not click the "Tally display", no matter there is a tally signal input or not, the region does not turn the red.

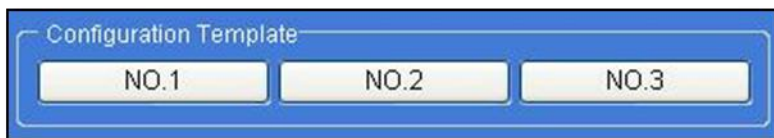


Tally shows effect:



Save Configuration Template

The system provides 3 templates with different settings for different use. To suit multiple devices work in the same environment, users do not need to modify the configuration every time. Just click the button, corresponding template will be applied.



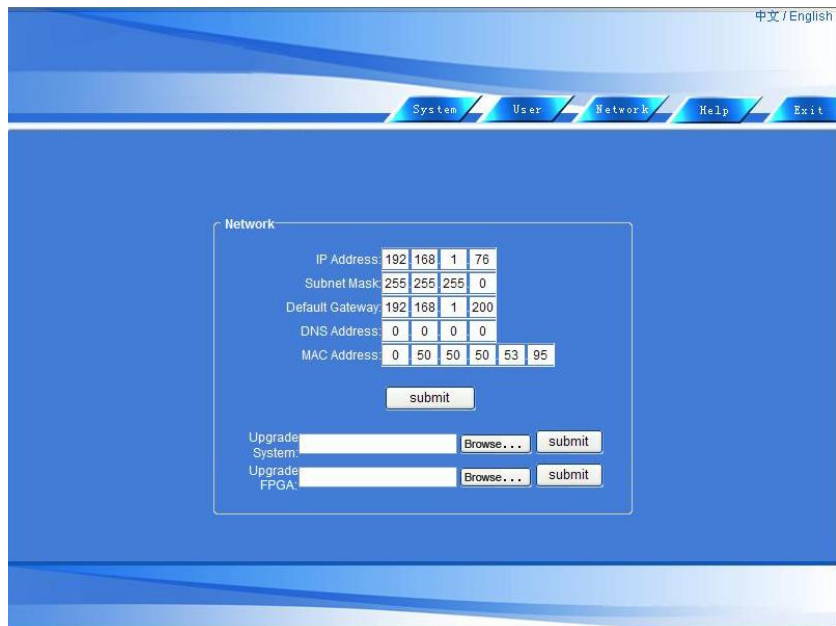
User Management

The screenshot displays the MIO-DVI User Management interface. At the top, a navigation bar contains buttons for 'System', 'User' (highlighted with a red box), 'Network', 'Help', and 'Exit'. Below this, the main content area has a blue background. On the right side of the main area, there is a 'User Management' tab. The interface shows the 'Current User: admin'. There are two main sections: 'Switch User' and 'Change Password'. The 'Switch User' section includes a 'User Name' dropdown menu set to 'admin' and a 'Password' text input field, with a 'submit' button below. The 'Change Password' section includes a 'User name' dropdown menu set to 'admin', and three text input fields for 'Old Password', 'New Password', and 'Confirm New Password', with a 'submit' button below. The bottom status bar indicates the version '3.4' and date '10-9-2008' for 'MIO-HDSDI-HDMI DVI'.

The software provides password-protected function, the initial password is 000000. Users can modify the password; maximum password length is 12 bits. When you modify the password successfully, information will prompt as "The password is altered successfully. It will take effect when you login next time."

Network Settings

The screenshot displays the MIO-DVI Network Settings interface. At the top, a navigation bar contains buttons for 'System', 'User', 'Network' (highlighted with a red box), 'Help', and 'Exit'.



You can modify the IP address, if modify successfully, the information prompts as “Network has been configured successfully; please turn down the power and restart the device again.” Restart the mini box, enter the new IP address in IE address and the web software will be opened.

The physical MAC address can be modified too. In the network, each network device has the only one physical address. When the physical addresses of the two devices are in conflict, you are able to use this feature to change the MAC address number.

User can also upgrade system and FPGA program under this label. Before the upgrade, the anti-virus software and firewall have to be closed to make sure that the upgrade data is transmitted to system without rejection. Windows 2003, Windows XP and Windows Vista are strongly recommended to upgrade the system with Internet Explorer.exe.

Power and network cannot be cut off during upgrading. When system is upgraded successfully, please turn off the power and restart the device. It will take about 6 minutes to upgrade each item.

The Default Template configuration

Configuration Template NO.1:

Video input=External signal

Output Resolution=1280x1024x60p

De-interlacing= three fields filtered and Enhanced Output

Output ratio: 16:9

Top Coordinates of left Audio Meter

x=0;

y=10;

Top Coordinates of right Audio Meter

x=680

y=10;

Frozen Pixel Percentage in a frame =80

Duration=1000ms

Black Pixel Percentage in a frame =90

Duration=1000ms

Audio Mute Sampling Rate =95

Duration=1000ms

Configuration Template NO.2:

Video input=External signal

Output Resolution=1280x1024x60p

De-interlacing= three fields filtered and Enhanced Output

Output ratio: 16:9

Top Coordinates of left Audio Meter

x=0;

y=10;

Top Coordinates of right Audio Meter

x=680

y=10;

Frozen Pixel Percentage in a frame =80

Duration=1000ms

Black Pixel Percentage in a frame =90

Duration=1000ms

Audio Mute Sampling Rate =95

Duration=1000ms

Configuration Template NO.3:

Video input=External signal

Output Resolution=1280x1024x60p

De-interlacing= three fields filtered and Enhanced Output

Output ratio: full screen

Frozen Pixel Percentage in a frame =80

Duration=1000ms

Black Pixel Percentage in a frame =90

Duration=1000ms

Audio Mute Sampling Rate =95

Duration=1000ms

PO No.
CUSTOMER: _____

CARRIER: **GeFei Tech.Co.,Ltd** TO _____

Device List

Name	Specification	Quantity	Remark
MIO HD SDI-HDMI/DVI	HD-SDI TO DVI-D Converter	1	
AC-DC Power	90~260VAC TO 12VDC 1.5A	1	
Total		2	

Accessories List

Name	Specification	Quantity	Remark
Video Cable	-----	-----	
Audio Cable	-----	-----	
Power Cable	-----	-----	
User's Manual (or Disk)		1	
Others	DVI-D TO HDMI Converter	1	
Total		2	

Contact Us

Technical support:

Tel:010-58858188

Fax:010-58858189

Website

www.gefei-tech.com

E-mail: support@gefei-tech.com

Address:

Gefei Tech. Co., Ltd

A-603 Power Creative Plaza NO.1 Shangdi E.Rd.Haidian District Beijing 100085

To Find More information, please visit www.gefei-tech.com